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THREE DECADES OF ENDEAVOR
A BIBLIOGRAPHY - 1944-1974

ARMY MEDICAL RESEARCH AND NUTRITION LABORATORY

APRIL 1974

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U. S. ARMY MEDICAL RESEARCH AND NUTRITION LABORATORY
FITZSIMONS ARMY MEDICAL CENTER
DENVER, COLORADO 80240

LABORATORY REPORT
NO. 345

April 1974

Project Number: 3A762760A822 Military Internal Medicine

THREE DECADES OF ENDEAVOR -
A BIBLIOGRAPHY: 1944-1974

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ABSTRACT

This report contains a listing of the publications originating from members of the staff of the U. S. Army Medical Nutrition Laboratory; the Medical R&D Unit, Fitzsimons General Hospital; and the U. S. Army Medical Research and Nutrition Laboratory (USAMRNL) during the period of 1944 to April 1974. USAMRNL actually had been discontinued as a unit on 24 August 1973, but the subsequent publications represent research designed or conducted prior to that time.

The listing includes 341 numbered laboratory reports, 36 unnumbered reports or reports from other federal agencies, 969 publications in the scientific literature, 406 published abstracts, and 14 books.

FOREWORD.

We owe profound thanks to the individuals in the Preventive Medicine Division, OTSG; the Medical Research and Development Board, OTSG; and the U. S. Army Medical Research and Development Command, OTSG, who through the years have made the research cataloged herein possible.

A more profound vote of thanks is due to the hundreds of investigators whose research articles are recorded in this report and to the thousands of nameless technicians who made the basic laboratory contributions so essential to the completion of successful research projects. A sympathetic note of gratitude is offered the long suffering secretaries who had the unenviable task of bringing each publication from a crude beginning through the many laborious steps leading to a final manuscript. Last but not least - a special word of thanks is due Mr. Carl Gordon who, as the laboratory's illustrator since 1947, has contributed so much to the publications produced by the activity.

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BODY OF REPORT

INTRODUCTION

During the process of biomedical research, only a minority of studies produce tangible, animate results, e.g., a new vaccine that significantly protects against a disease. The majority of fruitful, biomedical studies either prove or disprove hypotheses. They may contribute results which expand or clarify the existing biological knowledge or contribute to the improvement of life under all manner of normal or adverse conditions. However, these results become available for use only when published in the open literature and are cataloged in accessible vehicles.

Within the limited confines of this Activity, some protocols of proposed research or manuscripts describing completed research fail to recognize the effort expended by previous investigators at this institution to solve identical or similar problems. Continual effort is needed to minimize work to reinvent the same wheel and to prevent performance of unnecessary or duplicating research. Modern research must be aimed at addressing new problems or expanding the approach to old unsolved questions. The newly assigned investigator is required to work within the confines of the mission of the Activity. In many cases he must design, conduct and report work in areas in which he is academically unfamiliar. He must acquaint himself with the background literature, the most important being the previous efforts at this Activity.

During the last decade it has become increasingly apparent that the accession lists of the publications produced by members of the Activity's staff have been incomplete. In addition, it has been apparent that work performed under the auspices of the organization but published by the principal investigator after his departure has frequently not been reported for accessioning. During the past six years, an attempt has been made to correct the above situations, but this has produced incongruities, for example, an article published in 1961 was accessioned under the 1973 publications. This report represents a serious effort to correct the above deficiencies and to develop as complete a listing of this Activity's publications as is possible.

MATERIALS AND METHODS

The investigators assigned to this laboratory and their approved research areas both in Chicago and Denver were identified. The Cumulative Index was researched. The publications of individual investigators were checked to determine the site at which the research was conducted and the status of the author's employment at the Laboratory at the time of publication. Known publications frequently contained cross references to unaccessioned papers. The historical files contained officially cleared but apparently unpublished manuscripts which were checked to verify their status. Current or past key investigators were requested to submit copies

of their personal publication lists. Journals known to publish abstracts not listed in the Cumulative Index were carefully scrutinized as were publications of special interest groups or of government-sponsored enterprises.

The old accession lists were verified, and in the process many errors were discovered, e.g., incomplete titles; incomplete authorship; improper journal citations including journal name, volume and pagination; two or more publications incompletely listed under the same accession number and title; and other errors. The principal reason for the errors was the lack of a consistent policy for accessioning for use by the various accessioners over the years.

RESULTS

A total of 1,766 publications were identified for listing while previous accessioning had only identified 1,316 publications. To provide better classification, the publications are reported by year of publication and by type as follows:

Part I - Reports

IA - Numbered Laboratory Reports to The Surgeon General

IB - Unnumbered Laboratory Reports and Reports of Other Governmental Agencies to Which Members of USAMRNL Contributed

Part II - Publications in the Scientific Literature

Part III - Abstracts - Published in the Scientific Literature

Part IV - Books. This listing includes: complete books written or coauthored by staff members; chapters of books authored by staff members and not listed elsewhere; books edited by staff members; and books by former staff members based principally on research conducted while a member of the organization.

Part V contains an abbreviation glossary of the 173 periodicals in which the scientific reports appeared to more easily identify the proper titles of the journals.

Table 1 provides a yearly breakdown of the number and type of articles which were published. Material in this table can be used as a management tool when examined in combination with other factors. The yearly variability in the quantity of numbered laboratory reports can be partially

explained by the variation in the number of investigators employed. These reports have proved most valuable for: publication of data too extensive to be accepted by the average journal; publication of studies producing negative results; publication of data from studies important to the military, but of only minor interest to the editorial boards of some scientific journals; and more timely publication of data than can be achieved through the scientific journals. The last point can be illustrated in that publication of numbered laboratory reports has occurred from 9 to 40 months prior to the time when the same data could be published in the scientific literature. During this 6 to 40 month period, the United States Army Medical Research and Development Command (USAMRDC), the funding agency (OCRD), and the known interested scientific or military community have had access to and use of this information. Subsequent to 1967 the number of numbered laboratory reports has decreased as a result of a command directive. The substance of the directive was to avoid publication of data in numbered laboratory reports if the same data was to be later submitted to a scientific journal for publication. The adherence to this edict has produced complaints from military agencies waiting for data and recommendations derived from field nutrition studies, nutrition surveys and other similar field or laboratory studies.

In the past the accessioning of published abstracts has appeared to have been at the whim of the commander, the investigator, and/or the accessioner. This proved to be unfortunate in that, in a few instances, the only published account of some research projects was that contained in published abstracts. As a result of a 1971 request for a policy on the accessioning of abstracts, USAMRDC stated that all publications including abstracts should be accessioned. The increase in the number of abstracts in the last ten years (see Table 1) can be explained on the basis of the increased research effort, the increased number of personnel, the reduction on the restrictions pertaining to conference travel, and command emphasis on the necessity for conference attendees to be participants as well as observers.

One observation that resulted from the literature search necessary to complete this report pertained to the military officers assigned to the Activity for two or three years. Though many of the officers ended up in academic positions, very few continued in a research career. Those who did pursue a research career generally did so only for three or five additional years before accepting a teaching or practice role in the medical community. Even PhDs who had functioned as military investigators generally reverted to non-research positions on return to civilian life. The few PhDs who remained in the service continued to contribute to the scientific community.

Another observation that appears worthy of mention pertains to productivity. When projects or research objectives had been defined by higher headquarters, the resultant research appeared to be better planned,

better funded, better monitored, and much more productive. Examples of this include the one hundred plus in-house publications that resulted from the program initiated by COL Tyron Huber to determine the feasibility of using fat emulsions in parenteral nutrition. The combined in-house and extramural productivity of COL Huber's I.V. Task Force provided the basis for the development of an excellent I.V. fat emulsion by the Swedish pharmaceutical industry after interest in such a product had been lost by the American pharmaceutical industry. Similarly, studies on the treatment of tuberculosis were begun under the combined auspices of the Armed Forces and the Veterans Administration. This effort, which was ably guided at Fitzsimons General Hospital, first by COL Carl W. Tempel, M.C. (later MG Tempel), and subsequently by LTC James A. Wier, M.C. (later MG Wier), did much to define the chemotherapy of this disease and to improve the understanding of the disease. The irradiated food project was similarly productive and contributed greatly to the knowledge of the effects of radiation on foods. The studies of the impact of acute high terrestrial altitude exposure on physiological functions are another example. However, in-house studies initiated under an aggressive, highly intelligent leader have also been very productive; as an example, those directed by Dr. M. Grossman or those initiated by Dr. S. Levile.

DISCUSSION

To better understand the variability of the research productivity, the areas of research effort and the reason for the inclusion of some of the publications, some knowledge of the history of the Laboratory is essential. In early 1941 the Laboratory was established as an element of the Army Medical School at Walter Reed General Hospital to provide instruction and training of Nutrition Officers. On 19 February 1942, The Surgeon General expanded the mission of this element to conduct research related to military nutrition. Space and facilities at the Army Medical School were limited and in September 1944 the Army Medical Nutrition Laboratory was established in Chicago as a separate unit under the Office of The Surgeon General with Major George Berryman as Commander and Dr. Robert E. Johnson as Scientific Adviser. Major Berryman had been the director of the element since its inception at Walter Reed General Hospital.

The Laboratory's organization and authorized staffing did not remain static. In late 1947 Dr. Stanley Levenson joined the Laboratory as head of the Radiobiology Division. In September 1949, Dr. Levenson's division consisting of himself, one MSC officer, three enlisted personnel, and one other civilian were transferred to the Medical College of Virginia to continue its own research and to support the work being conducted by the nation's first burn research center. The division remained a part of the Medical Nutrition Laboratory until 1953 when Dr. Levenson and the personnel positions were transferred to the Army Medical Service Graduate School,

Walter Reed General Hospital to develop the Department of Surgical Metabolism and Physiology. This was not the only contribution that the Medical Nutrition Laboratory made to the research portion of Walter Reed General Hospital. In the spring of 1952, 13 officers, 1 enlisted and 6 civilian positions and the incumbents were transferred to the Army Medical Graduate School to help provide the nucleus of the positions needed to start the Metabolic Ward.

In May 1947 a joint project was started between the Medical Nutrition Laboratory and Fitzsimons General Hospital to determine if bronchiectasis represented an abnormality of vitamin A metabolism and if massive doses of vitamin A would influence the course of bronchiectasis treated medically or surgically. 1st Lt. Edward B. Liddle, Jr., M.C., Medical Nutrition Laboratory, headed the laboratory's effort at Fitzsimons and during the next two years worked closely with his collaborators at the hospital, Lt. Col. J. P. Sullivan and Col. James Forsee. Early in 1947, Fitzsimons General Hospital had requested that a Research and Development Unit be authorized. Permission was granted and on 1 October 1947 an R&D branch was established with an authorized strength of seven officers, seven enlisted and eight civilians to run a Microbiology Laboratory, a Special Metabolic Laboratory and Ward, and an Administrative Office. Because of his R&D assignment, Lt. Liddle assumed the responsibility of running the Fitzsimons R&D unit. Hence a member of the Medical Nutrition Laboratory had the distinction of being the first Chief of the R&D unit at Fitzsimons General Hospital. By 1951 the authorized strength of the unit had increased to 5 officers, 7 enlisted, and 24 civilians.

By the 1950s the situation in Chicago had become difficult due to the lack of facilities for the conduct of clinical studies on normal humans, the limited physical space, the location of the laboratory in the stockyards area, and the lack of a patient population to study. In the fall of 1953 the Laboratory moved to Fitzsimons General Hospital, but in the process lost many of its productive civilian investigators and technicians. Staff rebuilding was gradually accomplished. In September 1958 the R&D unit at Fitzsimons General Hospital was combined with the Medical Nutrition Laboratory to form the Medical Research and Nutrition Laboratory (USAMRNL). At the request of the former staff members of the R&D unit, the publications that had originated from the efforts of the unit's personnel during the period of 1951 through 1958 were accessioned on the USAMRNL publication accession list. Unfortunately many of the R&D unit's publications were overlooked. By 1964 the only easily discernible remnants of the R&D unit within the USAMRNL structure were the Microbiology Division, which continued to support the mycobacteriological research program at the hospital, and the experimental surgery branch of the Physiology Division.

Following the decision to incorporate USAMRNL into the new Letterman Army Institute of Research (LAIR) organizational structure, it was decided to transfer the Microbiology Division (3 officers, 6 enlisted, and 10 civilian positions) on 1 July 1972 to the relatively new Clinical Research Service of Fitzsimons General Hospital. This helped to insure support of

the ongoing programs of research in the field of diseases of the lungs. At approximately the same time, USAMRNL began to lose military investigators without replacement while civilian personnel who did not desire to move farther west began to depart the organization.

The various organizational changes described above are reflected in the number and contents of the publications listed in this report.

This report does contain publications based on research conducted at other institutions. In 1969 guidance provided by the legal division, USAMRDC indicated that all manuscripts emanating from the Laboratory required clearance prior to publication regardless of where the research had been conducted if the Activity had expended any of its resources - personnel or financial - in the course of manuscript development. Additional interpretation indicated that the same finding should apply in accessioning publications to the Laboratory's accession list.

It is expected that some publications originating from this Activity have been overlooked in this report, and it is hoped that they will be brought to the attention of the Commander, LAIR. In addition we realize that there are manuscripts which have not been listed herein but have been submitted to journals for possible publication or that are now "In-Press." It is intended that a subsequent report will be published which will contain only the articles published subsequent to 10 April 1974, those previously overlooked, and a subject index for the two reports.

TABLE 1

Year	Part I - Reports		Part II Journal Publications	Part III Published Abstracts	Part IV	
	IA	IB			Books	Total
1944			3			3
1945	6		4			10
1946	19		8			27
1947	8		17	3		28
1948	9		7	6		22
1949	24		27	11		62
1950	10		14	5		29
1951	13		24	7	1	45
1952	15		35	13		63
1953	19		29	9		57
1954	23		21	11		55
1955	27	4	34	8		73
1956	21		32	4		57
1957	23	2	24	6	1	56
1958	12	2	32	4		50
1959	12	2	35	10		59
1960	13	1	26	9		49
1961	9	3	32	5	2	51
1962	7	3	21	4		35
1963	10	3	36	10	4	63
1964	3	4	25	4	2	38
1965	4	1	33	23		61
1966	14		59	22	1	96
1967	11	3	63	26		103
1968	5	1	55	28		89
1969	2	5	70	37		114
1970	2		46	30		78
1971	5		56	29		90
1972	3	2	56	39	1	101
1973	11		43	32	1	87
1974 (3 mos.)	1		2	11		14
Total	341	36	969	406	14	1,766

PART I A

Numbered Laboratory Reports
to The Surgeon General.

1945

1. Bean, W. B., Johnson, R. E., Henderson, C. R., and Richardson, L. M.: Nutrition survey in Pacific theater of operations, 22 August 1945.
2. Roth, J. R., and Berryman, G. H.: A spot plate test for ascorbic acid in urine, 22 October 1945.
3. Spinella, J. R., Wood, M. E., and Berryman, G. H.: Hospital special diets made from expeditionary force rations, 1 September 1945.
4. Thompson, J. F., Cogswell, R. C., and Berryman, G. H.: Drug toxicity and nutritional state, 1 September 1945.
5. Thompson, C. R., Thompson, J. F., and Berryman, G. H.: The relation of the tissue concentration of a vitamin to urinary fasting and load test excretions, 6 November 1945.
6. Denko, C. W., Grundy, W. E., Porter, J. W. and Berryman, G. H. with Friedemann, T. E., and Youmans, J. B.: The excretion of B-Complex vitamins in the urine and feces of seven normal adults, 28 November 1945.

1946

7. Cogswell, R. C., Henderson, C. R. and Berryman, G. H., with Harris, S. C., Ivy, A. C., and Youmans, J. B.: Some observations of the effects of training on pulse rate, blood pressure and endurance in humans, using the step test (Harvard), treadmill and electrodynamic brake bicycle ergometer, 4 February 1946.
8. Cogswell, R. C., Berryman, G. H., Henderson, C. R., Denko, C. W., Spinella, J. R., with Friedemann, T. E., Ivy, A. C., and Youmans, J. B.: Absence of rapid deterioration in moderately active young men on a restricted intake of B-Complex vitamins and animal protein, 25 February 1946.
9. Spinella, J. R., Wood, M. E., Henderson, C. R., and Berryman, G. H.: Development and test of a beverage milk for overseas hospital use, 28 February 1946.

10. French, C. E.: Nutritional surveys of civilian populations in European theaters of operations - 6 April 1945 to 17 October 1945, 31 March 1946.
11. Risley, H. A., Thompson, J. F., Roth, J. S., French, C. E., and Berryman, G. H.: A spot plate test for ascorbic acid in urine, 31 March 1946.
12. Denko, C. W., Grundy, W. E., Wheeler, N. C., Henderson, C. R., Berryman, G. H., with Friedemann, T. E., and Youmans, J. B.: The excretion of B-complex vitamins by normal adults on a restricted intake, 30 April 1946.
13. Spinella, J. R., Wood, M. E., Henderson, C. R., and Berryman, G. H.: Development and test of a beverage milk for overseas hospital use, 30 April 1946.
14. Berryman, G. H.: Some unsolved army nutrition problems, 30 April 1946.
15. Grundy, W. E., Denko, C. W., Henderson, C. R., and Berryman, G. H. with Friedemann, T. E.: Excretion of free L-tryptophane in the urine of normal adults on normal and restricted intakes of protein and B-vitamins, 31 May 1946.
16. Freed, M., Grundy, W. E., Henderson, C. R., and Berryman, G. H., with Friedemann, T. E.: Apparent lack of relationship between levels of B-vitamins in the feces and dietary supplementation with crystalline B-vitamins and protein, 30 July 1946.
17. Grundy, W. E., Freed, M., Johnson, H. C., Henderson, C. R., and Berryman, G. H., with Friedemann, T. E.: The effect of phthalyl-sulfathiazole (sulfathalidina) on the excretion of B-vitamins by normal adults, 19 August 1946.
18. Henderson, C. R., Wheeler, N. C., Johnson, H. C., Cogswell, R. C., and Berryman, G. H., with Ivy, A. C., and Youmans, J. B.: Changes in personality appraisal associated with a restricted intake of B-vitamins and animal protein, 27 August 1946.
19. Berryman, G. H., and Henderson, C. R.: Further observations on factors influencing the biochemical appraisal of nutritional status, 30 August 1946.
20. Berryman, G. H., Henderson, C. R., Wheeler, N. C., Cogswell, R. C., Spinella, J. R., Grundy, W. E., Johnson, H. C., Wood, M. E., and Denko, C. W., with Friedemann, T. E., Harris, S. C., Ivy, A. C., and Youmans, J. B.: Effects in young men consuming moderately restricted quantities of B-complex vitamins and animal protein and changes associated with supplementation, 30 August 1946.

21. Johnson, H. C., Cogswell, R. C., Berryman, G. H., and Henderson, C. R., with Ivy, A. C., and Youmans, J. B.: Early symptoms and signs associated with a moderately restricted intake of B-complex vitamins and animal protein, 20 September 1946.
22. Wheeler, N. C., Johnson, H. C., Cogswell, R. C., Henderson, C. R., and Berryman, G. H.: Observations on the blood picture of human subjects receiving supplementation of B-complex vitamins and protein following a period of restricted intake, 26 September 1946.
23. Spinella, J. R., Wood, M. E., and Berryman, G. H.: Methods for protein reinforcement of therapeutic diets, 1 October 1946.
24. Berryman, G. H., French, C. E., Bell, S. L., and Henderson, C. R.: The relation of load test response and fasting excretion levels to tissue content of thiamine and riboflavin, 1 October 1946.
25. Johnson, R. E., Fetterman, L. L., and Crowley, L. V.: Preliminary report on the acceptability and nutritional adequacy of the ration, type E, test of operational ration OQMG No. 4631, September 1946, Camp Carson Colorado, 12 October 1946.

1947

26. Fitzpatrick, W. H.: Some remarks on nutritional aspects of task force Frigid and task force Williwaw, 30 January 1947.
27. Johnson, R. E., Fetterman, L. L., Crowley, L. V., Doisy, E. A., Swain, H. L., Price, J. I., Safell, W. B., and Jones, E. O.: Final report of test of operational ration OQMG No. 4631, September 1946 regarding acceptability and nutritional adequacy, 1 April 1947.
28. DaCosta, E.: Some effects of refeeding male albino rats after caloric restriction, 27 June 1947.
29. Denko, C. W.: Pteroylglutamic acid clearance in normal adults, 12 September 1947.
30. Silver, M. L., Zevin, S. S., Johnson, R. E., Kark, R. M., and Jones, E. O.: Canine epilepsy caused by bleached (agenized) flour. I. Experimental method, 9 September 1947.
31. Silver, M. L., Klein, J. R., and Monahan, E. P.: Canine epilepsy caused by bleached (agenized) flour. II. Role of amino acids, 9 September 1947.
32. Wood, M. E., Hill, V. R., and Spinella, J. R.: Acceptability to patients and cost of hospital diets fortified with protein concentrates and hydrolysates, 6 November 1947.

33. Silver, M. L., Johnson, R. E., Kark, R. M., Klein, J. R., Monahan, E. P., and Zevin, S. S.: Canine epilepsy caused by bleached (agenized) flour. III. White bread and epilepsy in animals, 6 November 1947.

1948

34. Kark, R. M.: Silent cancer of the stomach, 27 January 1948.
35. Silver, M. L., Monahan, E. P., Klein, J. R., and Pollock, G. H.: Canine epilepsy caused by bleached (agenized) flour. IV. Electroencephalographic analysis, 31 March 1948.
36. Schor, H. C., and Swain, H. L.: Simultaneous surveys of food consumption in various camps of the United States Army, 22-28 May 1945, 5 April 1948.
37. Lund, C. C., and Levenson, S. M.: Burns, 24 May 1948.
38. Kark, R. M. and Johnson, R. E.: Clinical diagnosis in nutrition surveys, 5 July 1948.
39. Fitzpatrick, W. H.: Spectrophotometric determination of amino acids by the ninhydrin reaction 6 October 1948.
40. Swain, H. L., Toth, F. M., Consolazio, C. F., Fitzpatrick, W. H., Allen D. I., and Koehn, C. J.: Three nutrition surveys at Fort Churchill, Manitoba, Canada 1947-48, 15 October 1948.
41. Morey, J., Gabuzda, G. J., and Scudamore, H. H.: Sensitization to Bromsulphalein (phenoltetrabromphthalein-disodium sulfonate), 21 October 1948.
42. Staff, Medical Nutrition Laboratory: Survival in the cold: a metabolic and nutritional study of soldiers acclimatized to heat transported abruptly to a very cold climate; 4 January - 11 February 1948, 30 November 1948.

1949

43. Robinson, J. C., James, G. W., and Kark, R. M.: The effect of oral therapy with cobaltous chloride on the blood of patients suffering with chronic suppurative infection, 21 January 1949.
44. Robinson, J. C.: A simple method for determination of serum copper, 27 January 1949.
45. Fitzpatrick, W. H.: A critique on the chromatographic separation of amino acids by the filter paper method, 7 February 1949.

46. Pollock, G. H.: The species specificity of agene toxicity, 21 February 1949.
47. Levenson, S. M., Adams, M. A., Fluharty, R., and Laskey Taylor F. H.: Studies in phosphorus metabolism in man. I. Methods for the determination of radioactive phosphorus (P^{32}), 28 February 1949.
48. Pirani, C. I., Bly, C. G., Sutherland, K., and Chereso, F.: Experimental amyloidosis in the guinea pig 17 March 1949.
49. Monahan, E. P., and Lalanne, G. G.: Metabolism of dogs during agene toxicity, 3 May 1949.
50. Scudamore, H. H., Morey, G. R., Consolazio, C. F., Berryman, G. H., Gordon, L. E., Lightbody, H. D., and Fevold, H. L.: Nitrogen balance in men consuming raw and heated dried egg white as supplemental sources of dietary protein, 9 May 1949.
51. Sargent, F., and Sargent, V. W.: Season, nutriture and pellagra, 16 May 1949.
52. DaCosta, E., and Clayton, R.: Effect of food restriction and dietary rehabilitation on food utilization and water and fat contents of the total carcass of male albino rats, 19 May 1949.
53. Waterman, D. F., Birkhill, F. R., and Levenson, S. M.: The healing of open wounds in the presence of anemia, 23 May 1949.
54. Sargent, F., Everson, T. C., and Kark, R. M.: Adenocarcinoma of the jejunum, 3 June 1949.
55. Levenson, S. M., Birkhill, F. R., and Waterman, D. F.: The healing of soft tissue wounds; the effects of nutrition, anemia and age, 8 June 1949.
56. Vorhaus, L. J., and Kark, R. M.: Measurement of serum cholinesterase activity; a useful laboratory tool in the study of diseases of the liver and biliary system, 8 June 1949.
57. Braasch, J. W., Bell, J. H. and Levenson, S. M.: Excretion of nitrogen and electrolytes following thermal burns in the rat, 9 June 1949.
58. Morey, G. R., Paynter, C. R., Consolazio, C. F., and Kark, R. M.: Metabolic and clinical effects of different regimens in chronic liver disease, 15 June 1949.
59. Johnson, R. E., Crowley, L. V., Toth, F., Koehn, C. J., Monahan, E. P., Lalanne, G. G., Parrott, E. M., Krzywicki, H. J., and Mancilla, A.: Nutrition surveys on troops, Alaska, winter, 1948-1949, 15 June 1949.

60. Consolazio, C. F., Johnson, R. E., and Marek, E.: A manual of metabolic methods, 1 August 1949.
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PART III

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PART V

Glossary

Abbreviations Utilized for Scientific Publications in Which Papers Appeared

1. ACTA MED. SCAND. - Acta Medica Scandinavia
2. AM. HEART J. - American Heart Journal
3. AM. J. CARDIOL. - American Journal of Cardiology
4. AM. J. CLIN. NUTR. - American Journal of Clinical Nutrition
5. AM. J. CLIN. PATH. - American Journal of Clinical Pathology
6. AM. J. DIS. CHILD. - American Journal of the Diseases of Children
7. AM. J. EPID. - American Journal of Epidemiology
8. AM. J. MED. SCI. - American Journal of Medical Science
9. AM. J. MED. TECH. - American Journal of Medical Technology
10. AM. J. MED. - American Journal of Medicine
11. AM. J. PATH. - American Journal of Pathology
12. AM. J. PHYS. ANTHROPOLOGY - American Journal of Physical Anthropology
13. AM. J. PHYSIOL. - American Journal of Physiology
14. AM. J. PUB. HEALTH - American Journal of Public Health
15. AM. J. TROP. MED. HYGIENE - American Journal of Tropical Medicine and Hygiene
16. AM. J. VET. RES. - American Journal of Veterinary Research
17. AM. PRACT. DIG. TREAT. - American Practitioner and Digest of Treatment
18. AM. REV. TUBERC. - American Review of Tuberculosis
 later
 AM. REV. TUBERC. & PULM. DIS. - American Review of Tuberculosis and Pulmonary Disease
 later
 AM. REV. RESP. DIS. - American Review of Respiratory Disease
19. AM. SURG. - The American Surgeon
20. ANAL. CHEM. - Analytical Chemistry
21. ANN. INT. MED. - Annals of Internal Medicine
22. ANN. N. Y. ACAD. SCI. - Annals of the New York Academy of Science
23. ANN. SURG. - Annals of Surgery
24. ANN. REV. PHYSIOL. - Annual Review of Physiology
25. ANTIBIOTICS AND CHEMOTHERAPY - Same
26. APPL. MICRO. - Applied Microbiology
27. ARCH. BIOCHEM. - Archives of Biochemistry
28. ARCH. BIOCHEM. BIOPHYSICS - Archives of Biochemistry and Biophysics
29. ARCH. BIOL. MED. EXPER. - Archives de Biologia y Medicina Experimental
30. ARCH. DERM. - Archives of Dermatology
31. ARCH. INT. MED. - Archives of Internal Medicine
32. ARCH. NEUROL. PSYCH. - Archives of Neurology and Psychiatry
33. ARCH. PATH. - Archives of Pathology

34. ARCH. SURG. - Archives of Surgery
35. ARMY - Same
36. ARMY INFO. DIGEST - Army Information Digest
37. ARTHRITIS AND RHEUMATISM - Same
38. ARCTIC ANTHROPOLOGY - Same
39. ASSOC. OF FOOD & DRUG OFFICIALS OF THE U. S. - Association of the Food and Drug Officials of the United States
40. AVIAN DIS. - Avian Disease
41. BIOCHEMISTRY - Same
42. BIOCHEM. J. - Biochemical Journal
43. BIOCHEM. MED. - Biochemical Medicine
44. BIOCHIM. BIOPHYS. ACTA - Biochimica et Biophysica Acta
45. BLOOD - Blood: Journal of Hematology
46. BRIT. J. EXPER. PATH. - British Journal of Experimental Pathology
47. BULL. U. S. ARMY MED. DEPT. - Bulletin of the United States Army Medical Dept.
48. CAN. J. BIOCHEM. - Canadian Journal of Biochemistry
49. CAN. J. PHYSIOL. PHARMACOL. - Canadian Journal of Physiology and Pharmacology
50. CIRCULATION - Same
51. CIRCULATION RES. - Circulation Research
52. CLIN. CHEM. - Clinical Chemistry
53. CLIN. PHARMACOL. THER. - Clinical Pharmacology and Therapeutics
54. CLIN. RES. - Clinical Research Proceedings
55. COMP. BIOCHEM. PHYSIOL. - Comparative Biochemistry and Physiology
56. CORNELL VET. - Cornell Veterinarian
57. DIABETES - Same
58. DIS. CHEST - Diseases of the Chest
59. DRUG INTELLIGENCE AND CLIN. PHARMACY - Drug Intelligence and Clinical Pharmacy
60. ENDOCRINOLOGY - Same
61. FED. PROC. - Federation Proceedings
62. FERT. STER. - Fertility and Sterility
63. FOOD RES. - Food Research
64. FOOD TECHNOLOGY - Same
65. GASTROENTEROLOGY - Same
66. HUMAN BIOL. - Human Biology
67. ILL. MED. J. - Illinois Medical Journal
68. INFEC. IMMUN. - Infection Immunity
69. INT. J. APPL. RADIAT. ISOT. - International Journal of Applied Radiation and Isotopes
70. INT. J. BIOCHEM. - International Journal of Biochemistry
71. INT. J. BIOMETEOR. - International Journal of Biometeorology
72. INT. REV. CONNECTIVE TIS. RES. - International Review of Connective Tissue Research
73. INT. J. VITA. NUTR. RES. - International Journal of Vitamin and Nutrition Research
74. INVEST. UROLOGY - Investigative Urology

75. J.A.A.H.A. - Journal of the American Animal Hospital Association
76. J.A.C.S. - Journal of the American Chemical Society
77. J.A.D.A. - Journal of the American Dental Assn.
78. J.A.M.A. - Journal of the American Medical Assn.
79. J.A.V.M.A. - Journal of the American Veterinary Medical Assn.
80. J. AGRIC. & FOOD CHEM. - Journal of Agriculture and Food Chemistry
81. J. ALLERGY - Journal of Allergy
82. J. AM. DIETET. A. - Journal of the American Dietetic Assn.
83. J. AM. PHARM. ASSN. - Journal of the American Pharmacology Assn.
84. J. APPL. PHYSIOL. - Journal of Applied Physiology
85. J. ASSOC. OFF. AG. CHEM. - Journal of the Association of the Official Agricultural Chemists
86. J. ATHEROSCLER. RES. - Journal of Atherosclerosis Research
87. J. BACTERIOLOGY - Journal of Bacteriology
88. J. BIOL. CHEM. - Journal of Biological Chemistry
89. J. BONE & JOINT SURG. - Journal of Bone and Joint Surgery
90. J. CAN. DIETET. A. - Journal of the Canadian Dietetics Assn.
91. J. CELL BIOL. - Journal of Cell Biology
92. J. CHROMATOG. - Journal of Chromatography
93. J. CLIN. ENDOCRINOL. METAB. - Journal of Clinical Endocrinology and Metabolism
94. J. CLIN. INVEST. - Journal of Clinical Investigation
95. J. CLIN. NUTR. - Journal of Clinical Nutrition (now American Journal of Clinical Nutrition)
96. J. DAIRY SCI. - Journal of Dairy Science
97. J. DENT. CHILD. - Journal of Dentistry for Children
98. J. DENT. MED. - Journal of Dental Medicine
99. J. DENT. RES. - Journal of Dental Research
100. J. EXPER. MED. - The Journal of Experimental Medicine
101. J. EXPER. PSYCHOLOG. - Journal of Experimental Psychology
102. J. GERONTOLOGY - Journal of Gerontology
103. J. HISTOCHEM. & CYTOCHEM. - Journal of Histochemistry and Cytochemistry
104. J. HOME ECONOMICS - Journal of Home Economics
105. J. IMMUNOLOGY - Journal of Immunology
106. J. INF. DIS. - Journal of Infectious Diseases
107. J. LABELLED COMPOUNDS - Journal of Labelled Compounds
108. J. LAB. CLIN. MED. - Journal of Laboratory and Clinical Medicine
109. JOURNAL-LANCET - Journal-Lancet (Minneapolis)
110. J. LIPID RES. - Journal of Lipid Research
111. J. NAT. CANCER INST. - Journal of the National Cancer Research
112. J. NEUROPATH. & EXPER. NEUROL. - Journal of Neuropathology and Experimental Neurology
113. J. NUTR. - Journal of Nutrition
114. J. ORGAN. CHEM. - Journal of Organic Chemistry
115. J. PEDIAT. - Journal of Pediatrics
116. J. PHARMACOL. & EXPER. THERAP. - Journal of Pharmacology and Experimental Therapeutics
117. J. PHYSIOL. - Journal of Physiology (Paris)
118. J. PROTOZOOL. - Journal of Protozoology

119. J. SCI. IND. RES. - Journal of Science and Industrial Research (India)
120. J. SMALL ANIM. PRACT. - Journal of Small Animal Practice
121. J. THORACIC CARDIO. SURG. - Journal of Thoracic and Cardiovascular Surgery
122. J. THORACIC SURG. - Journal of Thoracic Surgery
123. J. WILDLIFE DIS. - Journal of Wildlife Disease
124. J. ZOO ANIMAL MEDICINE - Journal of Zoo Animal Medicine
125. LAB. ANIM. - Laboratory Animals
126. LAB. ANIM. CARE - Laboratory Animal Care
127. LAB. ANML. SCI. - Laboratory Animal Science (Formerly Laboratory Animal Care)
128. LAR. INVEST. - Laboratory Investigation
129. LANCET - Lancet (London)
130. LIFE SCIENCE - Same
131. LIPIDS - Same
132. MED. SERVICE J. - Medical Services Journal, Canada
133. MEDICAL TIMES - Same
134. MEDICINE - Same
135. METABOLISM - Same
136. MIL. MED. - Military Medicine
137. MIL. SURG. - Military Surgeon (now Military Medicine)
138. MYCOPATHOLOGICA ET MYCOLOGIA APPLICATA - Same
139. NATURE - Same
140. NEUROLOGY - Same
141. NEW ENG. J. MED. - New England Journal of Medicine
142. NURSING RES. - Nursing Research
143. NUTRITION NEWS - Same
144. NUTR. RPTS. INT. - Nutrition Reports International
145. NUTR. REVIEW - Nutrition Review
146. PEDIATRICS - Same
147. PED. RES. - Pediatric Research
148. PERCEPT. MOT. SKILLS - Perceptual and Motor Skills
149. PHYS. THERAPY REV. - Physical Therapy Review
150. PHYSICS IN MED. & BIOL. - Physics in Medicine and Biology
151. PHYSIOL. ZOOL. - Physiological Zoology
152. POULTRY SCI. - Poultry Science
153. PROC. COLO. WYO. ACAD. SCI. - Proceedings of the Colorado-Wyoming Academy of Science
154. PROC. SOC. EXP. BIOL. MED. - Proceeding of the Society for Experimental Biology and Medicine
155. PSYCHOPHARMACOLOGIA - Same
156. PUBLIC HEALTH REPORTS - Same
157. QUARTERLY OF CHICAGO MEDICAL SCHOOL - Same
158. RADIATION RESEARCH - Same
159. RADIOLOGY - Same
160. RESEARCH QUARTERLY - Same
161. REV. SCI. INST. - Review of Scientific Instruments

- 162. SCIENCE - Same
- 163. SOUTHEAST ASIAN J. TROP. MED. & PUBLIC HEALTH - Southeast Asian Journal
of Tropical Medicine and Public Health
- 164. SO. MED. J. - Southern Medical Journal
- 165. SOUTHWESTERN VET. - Southwestern Veterinarian
- 166. STAIN TECHNOL. - Stain Technology
- 167. SURGERY - Same
- 168. SURG., GYN. & OB. - Surgery, Gynecology and Obstetrics
- 169. TOXICOL APPL. PHARMACOL. - Toxicology and Applied Pharmacology
- 170. TRANS. AM. ASSOC. G.U. SURG. - Transactions of the American Assoc.
of Genitourinary Surgeons
- 171. USAF MED. J. - United States Armed Forces Medical Journal
- 172. VITAMINS & HORMONES - Same
- 173. WORLD REVIEW OF NUTRITION AND DIETETICS - Same